



United States Environmental Protection Agency

Region 9 Laboratory

1337 S. 46th Street Building 201

Richmond, CA 94804

APR 9 2004

Subject: Analytical Testing Results - Project R04S42
SDG: 04063B

From: Brenda Bettencourt, Director
EPA Region 9 Laboratory *B. Bettencourt*
PMD-2

To: Chris Lichens
Site Cleanup Section 4
SFD-7-4

Attached are the results from the analysis of samples from the **Omega Chemical OU2 March 2004 Sampling** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Vance Fong at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

Analyses included in this report:

Solids, Total Dissolved



United States Environmental Protection Agency Region 9 Laboratory

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Phone:(510) 412-2300 Fax:(510) 412-2302

Site Cleanup Section 4

75 Hawthorne Street
San Francisco CA, 94105

Project: Omega Chemical OU2 March 2004 Sampling

Project Number: R04S42
Project Manager: Chris Lichens

SDG:04063B
Reported:04/08/04 12:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
OC2-MW1A-W-0-1	0403009-01	Water	03/02/04 10:30	03/03/04 10:00
OC2-MW1B-W-0-2	0403009-02	Water	03/02/04 11:30	03/03/04 10:00
OC2-MW2A-W-0-4	0403009-04	Water	03/02/04 13:30	03/03/04 10:00
OC2-MW4A-W-0-5	0403011-01	Water	03/03/04 08:05	03/04/04 09:30
OC2-MW4A-W-1-6	0403011-02	Water	03/03/04 08:25	03/04/04 09:30
OC2-MW4B-W-0-7	0403011-03	Water	03/03/04 09:00	03/04/04 09:30
OC2-MW4C-W-0-8	0403011-04	Water	03/03/04 09:30	03/04/04 09:30
OC2-MW5A-W-0-9	0403011-05	Water	03/03/04 11:15	03/04/04 09:30
OC2-MW6A-W-0-10	0403011-06	Water	03/03/04 12:40	03/04/04 09:30
OC2-MW6A-W-1-11	0403011-07	Water	03/03/04 12:45	03/04/04 09:30
OC2-MW8A-W-0-12	0403021-01	Water	03/04/04 07:50	03/05/04 10:49
OC2-MW8B-W-0-13	0403021-02	Water	03/04/04 08:15	03/05/04 10:49
OC2-MW8C-W-0-14	0403021-03	Water	03/04/04 08:50	03/05/04 10:49
OC2-MW8D-W-0-15	0403021-04	Water	03/04/04 09:25	03/05/04 10:49
OC2-00-W-2-16	0403021-05	Water	03/04/04 09:30	03/05/04 10:49
OC2-MW9B-W-0-17	0403021-06	Water	03/04/04 11:15	03/05/04 10:49
OC2-MW10A-W-0-18	0403021-07	Water	03/04/04 12:15	03/05/04 10:49
OC2-MW11A-W-0-19	0403021-08	Water	03/04/04 13:05	03/05/04 10:49
OC2-MW7A-W-0-20	0403025-01	Water	03/05/04 08:10	03/08/04 10:35
OC2-MW3A-W-0-21	0403025-02	Water	03/05/04 08:45	03/08/04 10:35

Samples 0403025-01 and -02 were sampled and shipped Friday 3/5/04 but unavailable for pick up at Fed Ex on Saturday 3/6/04. Samples were finally received on Monday 3/8/04. Sample were received at 9 degrees C, which is outside recommended 0 - 6 degree C range. BOD, nitrate, nitrite and ortho-phosphate were past hold time when samples were received.

Samples from Work Order 0403011 were sampled and shipped on 3/03/04 in three coolers. Two coolers were received on 3/4/04 @ 9:30am. One cooler was received on 3/5/04 @ 9:34. The BOD samples 0403011- 01, -02, -03, and -04 were past the hold time when received. Sample 0403011-05 hold time also expired before the analyses could be started.

Since the BOD results for all samples from this case were non-detects, it is doubtful that these shipping issues affected the results for any of the samples.



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Project: Omega Chemical OU2 March 2004 Sampling

Project Number: R04S42
Project Manager: Chris Lichens

SDG: 040633
Reported: 04/08/04 12:50

Conventional Chemistry Parameters by APHA/EPA Methods
EPA Region 9 Laboratory

Method	Analyte	Result	Qualifiers/ Comments	Quantitation Limit	Units	Batch	Prepared	Anal
0403009-01	: OC2-MW1A-W-0-1 Water	Sampled: 03/02/04 10:30	Received: 03/03/04 10:00					
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	840	20	mg/L	B4C0165	03/05/04	03/05/04	160.1/SOP461	
0403009-02	: OC2-MW1B-W-0-2 Water	Sampled: 03/02/04 11:30	Received: 03/03/04 10:00					
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	820	20	mg/L	B4C0165	03/05/04	03/05/04	160.1/SOP461	
0403009-04	: OC2-MW2A-W-0-4 Water	Sampled: 03/02/04 13:30	Received: 03/03/04 10:00					
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	1000	20	mg/L	B4C0165	03/05/04	03/05/04	160.1/SOP461	
0403011-01	: OC2-MW4A-W-0-5 Water	Sampled: 03/03/04 08:05	Received: 03/04/04 09:30					
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	1000	20	mg/L	B4C0165	03/05/04	03/05/04	160.1/SOP461	
0403011-02	: OC2-MW4A-W-1-6 Water	Sampled: 03/03/04 08:25	Received: 03/04/04 09:30					
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	1000	20	mg/L	B4C0165	03/05/04	03/05/04	160.1/SOP461	
0403011-03	: OC2-MW4B-W-0-7 Water	Sampled: 03/03/04 09:00	Received: 03/04/04 09:30					
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	1100	J, A3 20	mg/L	B4D0019	03/25/04	03/25/04	160.1/SOP461	
0403011-04	: OC2-MW4C-W-0-8 Water	Sampled: 03/03/04 09:30	Received: 03/04/04 09:30					
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	920	20	mg/L	B4C0165	03/05/04	03/05/04	160.1/SOP461	
0403011-05	: OC2-MW5A-W-0-9 Water	Sampled: 03/03/04 11:15	Received: 03/04/04 09:30					
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	1100	20	mg/L	B4C0165	03/05/04	03/05/04	160.1/SOP461	
0403011-06	: OC2-MW6A-W-0-10 Water	Sampled: 03/03/04 12:40	Received: 03/04/04 09:30					
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	1200	20	mg/L	B4C0165	03/05/04	03/05/04	160.1/SOP461	



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Project Number: R04S42
Project Manager: Chris Lichens

SDG:04063B
Reported:04/08/04 12:50

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
0403011-07 : OC2-MW6A-W-1-11 Water Sampled: 03/03/04 12:45 Received: 03/04/04 09:30								
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	1200		20	mg/L	B4C0165	03/05/04	03/05/04	160.1/SOP461
0403021-01 : OC2-MW8A-W-0-12 Water Sampled: 03/04/04 07:50 Received: 03/05/04 10:49								
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	1300		20	mg/L	B4C0166	03/10/04	03/10/04	160.1/SOP461
0403021-02 : OC2-MW8B-W-0-13 Water Sampled: 03/04/04 08:15 Received: 03/05/04 10:49								
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	1300		20	mg/L	B4C0166	03/10/04	03/10/04	160.1/SOP461
0403021-03 : OC2-MW8C-W-0-14 Water Sampled: 03/04/04 08:50 Received: 03/05/04 10:49								
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	1300		20	mg/L	B4C0166	03/10/04	03/10/04	160.1/SOP461
0403021-04 : OC2-MW8D-W-0-15 Water Sampled: 03/04/04 09:25 Received: 03/05/04 10:49								
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	800		20	mg/L	B4C0166	03/10/04	03/10/04	160.1/SOP461
0403021-05 : OC2-00-W-2-16 Water Sampled: 03/04/04 09:30 Received: 03/05/04 10:49								
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	27		20	mg/L	B4C0166	03/10/04	03/10/04	160.1/SOP461
0403021-06 : OC2-MW9B-W-0-17 Water Sampled: 03/04/04 11:15 Received: 03/05/04 10:49								
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	1300		20	mg/L	B4C0166	03/10/04	03/10/04	160.1/SOP461
0403021-07 : OC2-MW10A-W-0-18 Water Sampled: 03/04/04 12:15 Received: 03/05/04 10:49								
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	1400		20	mg/L	B4C0166	03/10/04	03/10/04	160.1/SOP461
0403021-08 : OC2-MW11A-W-0-19 Water Sampled: 03/04/04 13:05 Received: 03/05/04 10:49								
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	1700		20	mg/L	B4C0166	03/10/04	03/10/04	160.1/SOP461



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Project Number: R04S42
Project Manager: Chris Lichens

SDG:04063B
Reported:04/08/04 12:50

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
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0403025-01 : OC2-MW7A-W-0-20 Water Sampled: 03/05/04 08:10 Received: 03/08/04 10:35

Conventional Chemistry Parameters by APHA/EPA Methods

Total Dissolved Solids	1700		20	mg/L	B4C0166	03/10/04	03/10/04	160.1/SOP461
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0403025-02 : OC2-MW3A-W-0-21 Water Sampled: 03/05/04 08:45 Received: 03/08/04 10:35

Conventional Chemistry Parameters by APHA/EPA Methods

Total Dissolved Solids	1100		20	mg/L	B4C0166	03/10/04	03/10/04	160.1/SOP461
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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
EPA Region 9 Laboratory

Batch B4C0165 - - General Biology - Solids, Total Dissolved

Blank (B4C0165-BLK1)

Prepared & Analyzed: 03/05/04

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Total Dissolved Solids	ND	U	20	mg/L						

Calibration Check (B4C0165-CCV1)

Prepared & Analyzed: 03/05/04

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Total Dissolved Solids	22			mg/L	20.0		110	50-150		

Duplicate (B4C0165-DUP1)

Source: 0403009-01

Prepared & Analyzed: 03/05/04

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Total Dissolved Solids	850		20	mg/L		840			1	20

Reference (B4C0165-SRM1)

Prepared & Analyzed: 03/05/04

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Total Dissolved Solids	2000			mg/L	2090		96	85-115		

Batch B4C0166 - - General Biology - Solids, Total Dissolved

Blank (B4C0166-BLK1)

Prepared & Analyzed: 03/10/04

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Total Dissolved Solids	ND	U	20	mg/L						

Calibration Check (B4C0166-CCV1)

Prepared & Analyzed: 03/10/04

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Total Dissolved Solids	21			mg/L	20.0		105	50-150		

Reference (B4C0166-SRM1)

Prepared & Analyzed: 03/10/04

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Total Dissolved Solids	2000			mg/L	2090		96	85-115		

Batch B4D0019 - - General Biology - Solids, Total Dissolved

Blank (B4D0019-BLK1)

Prepared & Analyzed: 03/25/04

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit





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Project Manager: Chris Lichens

SDG:04063B
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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
EPA Region 9 Laboratory

Batch B4D0019 - - General Biology - Solids, Total Dissolved

Calibration Check (B4D0019-CCV1)

Prepared & Analyzed: 03/25/04

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Total Dissolved Solids	21			mg/L	20.0		105	50-150		

Reference (B4D0019-SRM1)

Prepared & Analyzed: 03/25/04

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Total Dissolved Solids	2000			mg/L	2090		96	85-115		



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Qualifiers and Comments

J The reported result for this analyte should be considered an estimated value.
A3 The sample was extracted/analyzed past the recommended holding time.
U Not Detected
NR Not Reported